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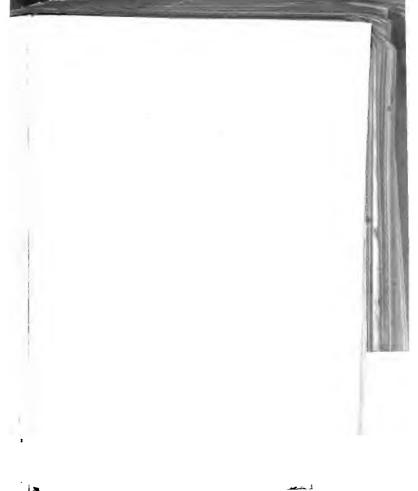
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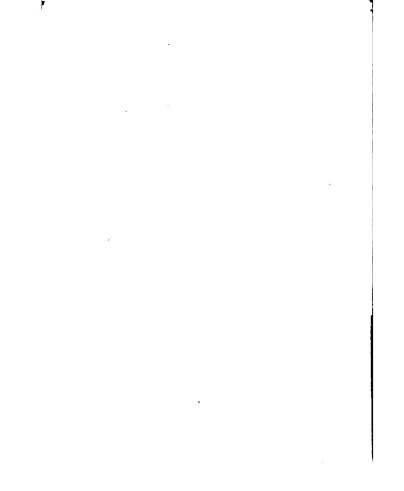
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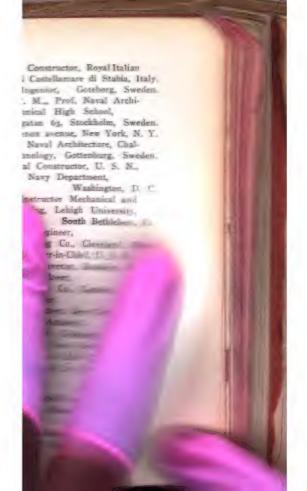
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Toch, Henry M., Manufacturer of Marine Cements and Ship Bottom Paints,

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TOWNSEND, GEORGE RICHARDS, Mechanical and Marine
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Tuck, Edward G., Foreman in charge of Mold Loft,
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Turner, Louis Horatio, Surveyor,
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FISHER, LEE DAVID,, Chief Engineer,

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OVERMAN, AUSTIN EVERETT, 429 Penn st., Camden, N. J.

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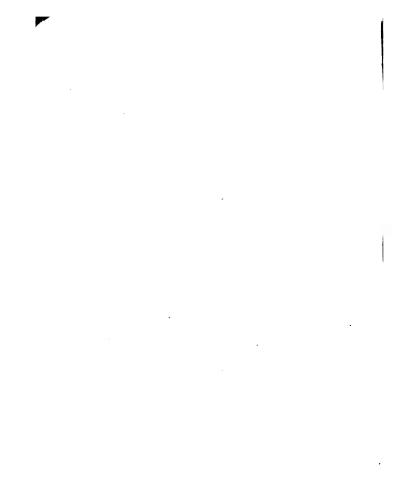
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# CONSTITUTION

AND

# **BY-LAWS**

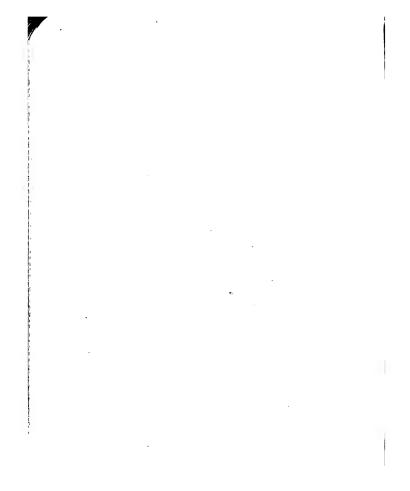
OF THE

Society of

Naval Architects

and

Marine Engineers



## CONSTITUTION AND BY-LAWS

### ARTICLE I.

## Name and Object.

- I. The name of the Association shall be, "The Society of Naval Architects and Marine Engineers"
- 2. Its object shall be the promotion of the art of shipbuilding, commercial and naval.
- 3. In furtherance of this object, annual meetings shall be held for the reading and discussion of appropriate papers and interchange of professional ideas, thus making it possible to combine the results of experience and research on the part of shipbuilders, marine engineers, naval officers, yachtsmen, and those skilled in producing the material from which ships are built and equipped.

## ARTICLE II.

## Membership.

The Society shall consist of Members, Associates, Juniors, Honorary Members and Honorary Associates.

- 2. Members.—(1) The class of Members shall consist exclusively of Naval Architects, Marine and Mechanical Engineers, including Professors of Naval Architecture or Mechanical Engineering in colleges of established reputation.
- (2) A candidate for this class must not be less than twenty-five years of age and comply with the following regulations: He shall submit to the Council a statement showing that he has been engaged in the practice of his profession, in a responsible capacity, for at least three years, and setting forth the grounds upon which he bases his claim to membership. This statement shall be signed by three members, who shall certify to their personal knowledge of the candidate and approval of his statement.
- (3) In the case of persons not American citizens, the signatures of three members shall be required in confirmation of their personal knowledge of the candidate's scientific attainments.
- (4) If three-fourths of the members of the Council present are in favor of the admission of the candidate his name shall be submitted to the members of the Society at the next meeting; the voting to be by ballot, should a ballot be demanded.
- 3. Associates.—(1) The class of Associates shall consist of all persons who, by profession,

occupation, or scientific attainments, are qualified to discuss the qualities of a ship.

- (2) Candidates for this class shall submit to the Council a written statement of their qualifications for membership. If considered by three-fourths of the Council present duly qualified for associate membership their names shall be submitted to the Society at the next meeting, to be voted upon by the Members and Associates: voting to be by ballot, should a ballot be demanded.
- 4. The proportion of favorable votes for deciding the election of Members and Associates shall be at least four-fifths of the number recorded.
- 5. Juniors.—(1) The class of Juniors shall consist of graduates of technical schools of established reputation, or persons who have had not less than two years' practical experience in marine engine works or shipyards.
- (2) Candidates must be at least eighteen years of age and certify their intention to continue in the profession and become naval architects and marine engineers.
- (3) Juniors shall be eligible for transfer to the class of Members after fulfilling the necessary conditions.
  - (4) The admission of Juniors shall be by a

favorable vote of three-fourths of the members of the Council present.

- (5) Juniors shall have no voice in the government of the Society or admission of members.
- 6. Honorary Members and Honorary Associates.—The Council may elect Honorary Members and Honorary Associates, the total number not to exceed twenty-five. They shall be persons of acknowledged eminence in their profession upon whom the Council may see fit to confer an honorary distinction.

## ARTICLE III.

### Dues.

1. The entrance fees, payable on admission to the Society, shall be as follows:

Members and Associates, ten dollars; Juniors, five dollars; Honorary Members and Honorary Associates, no fees.

- 2. The annual dues shall be as follows:
- Members and Associates, ten dollars; Juniors, five dollars; Honorary Members and Honorary Associates, no dues.
- 3. A member transferred from one grade to another shall pay the difference between the entrance fees of the two grades, and his annual dues shall be those of the grade to which transferred.

- 4. The annual contributions shall be payable in advance on the first day of January. The Secretary shall notify each member of the amount due for the ensuing year at the time of giving notice for the annual meeting. On election each member shall pay his entrance fee and annual dues for the current year and be entitled to receive the proceedings of the annual meeting of the year during which he is elected.
- 5. Members and Associates can compound for all future dues and become Life Members or Life Associates by making a single payment of two hundred dollars and signing an agreement to conform to any future amendments to the Constitution and By-Laws.
- 6. Members are entitled to no return fees upon severing their connection with the Society.
- 7. Any member whose dues are more than three months in arrears shall be notified by the Secretary. Should his dues become six months in arrears he shall be again notified by the Secretary and his rights as a member suspended. Should his dues become one year in arrears the delinquent member shall forfeit his membership in the Society unless the Council may deem it expedient to extend the time of payment.
- 8. The Council may, in its discretion, temporarily suspend the annual payment of dues by any

member whose circumstances have become such as to make such payment impossible, and may, under similar circumstances, remit the whole or part of dues in arrears.

- 9. No name shall be entered on the rolls as Member, Associate or Junior, nor shall the privileges of membership be enjoyed until all dues shall have been paid; if the payment be delayed for more than six months from the date of election, the same shall be void unless the Council otherwise direct.
- 10. Should the expulsion of any member be judged expedient by five or more members, they must draw up and sign a proposal requesting such expulsion, delivering the same to the Secretary, to be laid before the Council.
- (2) If the Council do not find reason to concur in the proposal, no entry thereof shall appear in the minutes, nor shall any public discussion thereon be permitted.
- (3) If, however, the Council find the charges contained in the proposal for expulsion substantiated, the accused member shall be notified and given an opportunity to resign. If he avails himself of this privilege, no entry shall be made on the minutes nor public discussion of the case be permitted. But if he declines to resign and offers no satisfactory explanation of the charge,

the whole case shall be submitted to a special meeting of the Society.

(4) If two-thirds of the members at this special meeting (providing there be not less than twenty present) vote for expulsion, the Chairman of the meeting shall cause the accused to be expelled from the Society, and direct the Secretary to notify the accused of this action.

### ARTICLE IV.

### Officers.

- I. The officers of the Society shall consist of a President, Past Presidents, twelve Vice-Presidents, twenty-four Members of Council, and a Secretary and Treasurer.
- 2. Both Members and Associates are eligible for the offices of President, Vice-President and Members of Council, but three-fourths of the Council shall be Members.
- 3. Prior to the date of the annual meeting of the Society of the year with which the term of the President expires, the Council shall nominate a candidate for the office of President, whose name shall be presented to the Society for election at the annual meeting. Any other candidate whose nomination, signed by at least sixty Members and Associates, shall have been submitted to the Secretary prior to the annual meeting shall

also be presented. The candidate receiving the highest number of votes shall be the President for the ensuing three years. The first President under this rule shall be elected at the annual meeting in 1906, and his term of office shall begin January 1st, 1907. The President shall not be eligible for election as his own successor.

- 4. The term of office of the Vice-Presidents shall be six years. Prior to the annual meeting in 1906 the Executive Committee shall by lot divide the present list of Vice-Presidents into six classes, so that the term of two of their number shall expire at the end of 1906, and two others at the end o f1907, and so on to the year 1911. The Vice-Presidents to fill the vacancies occurring each year in any class shall be elected by the Council from their own membership. Retiring Vice-Presidents shall be eligible for re-election.
- 5. The term of office of the Members of Council shall be three years. Prior to the annual meeting in 1906, the Executive Committee shall by lot divide the present list of Members of Council into three classes, each class consisting, as near as may be, of six Members and two Associates. The terms of office of the three classes shall expire at the end of the years 1906, 1907 and 1908 respectively. Retiring Members and Associates shall be eligible for re-election. Prior to

September 1st of each year, the Executive Committee shall prepare voting lists to fill the places of retiring Members and Associates, Members of the Council. The list shall contain the names of at least twelve Members and at least four Associates as candidates for the vacancies. The lists shall contain the names of all retiring Members and Associates who shall not have declined reelection, and of all candidates who shall have been nominated in writing by not less than tventy members in the case of Members, and not less than twenty members and associates in the case of Associates. No nominations received by the Secretary after August 15th shall be considered. Should such nominations not be sufficient in number to fill up lists of at least twelve Members and four Associates as candidates, the Executive Committee shall add sufficient names to fill out these numbers. The voting lists shall be mailed as soon as practicable after September 1st of each year to Members and Associates. Each Member may vote for not more than six Members and two Associates for the Council, and each Associate may vote for not more than two Associates. The ballots shall be returned by mail to the Secretary and canvassed at the annual meeting. The six members receiving the highest votes shall be declared elected Members of Council, and the two

associates receiving the highest votes shall be declared electd Associates, Members of Council, for the term of three years.

- 6. A vacancy in the office of President shall be filled by ballot by the Council from the list of Vice-Presidents until the end of the year in which it occurs. At the annual meeting of that year a new President shall be elected for three years in the manner prescribed in paragraph 3. A vacancy in the office of Member of Council shall be filled by the Council for the unexpired portion of the term of the Member or Associate causing the vacancy.
- 7. The Presidents, Past Presidents and Vice-Presidents shall be ex-officio Members of Council.
- 8. The Council may hold meetings subject to the call of the President, as often as the interests of the Society may demand.
- 9. At all meetings of Council five members shall constitute a quorum.
- 10. The Secretary and Treasurer shall be elected annually by the Council, but may be removed at any time by a majority vote of the Council after due notice has been given.
- 11. The Secretary must be a Member of the Society.

# ARTICLE V. Management.

- 1. (1) The President shall have general supervision over the affairs of the Societ, appoint special committees, and preside at the annual general meetings. He shall be ex-officio member of all committees.
- (2) In the absence of the President, the Vice-Presidents, in the order of seniority, shall preside and perform all the duties of the President.
- 2. The direct management of the Society shall be vested in an Executive Committee composed of five members of Council, elected annually by the Council, the President and Secretary of the Society being ex-officio members of the Committee. At least three of the five elective members of the Committee shall be Members of the Society.
- 3. The Executive Committee shall manage the affairs of the Society in conformity with the laws under which it is incorporated and the provisions of this Constitution. It shall direct the investment and care of the funds of the Society; make appropriations for specific purposes; arrange for the reading and publication of professional papers under such regulations as the Council may from time to time prescribe; take measures to advance the interests of the Society, and generally direct its affairs.

- 4. The Executive Committee shall make an annual report to the Society, transmitting the report of the Secretary and Treasurer, and of any special committee which may have been ordered.
- 5. (1) The Secretary shall be the Executive Officer of the Society under the immediate direction of the President and the Executive Committee.
- (2) He shall prepare the business for the annual meetings and record the proceedings thereof.
- (3) He shall be responsible for all expenditures and certify the accuracy of all bills or vouchers upon which money has been paid, and he shall conduct the correspondence of the Society and keep full records of the same.
- 6. The Treasurer shall see that all money due the Society is collected and carefully invested in such manner as the Executive Committee may direct. If considered advisable by the Council, the duties of Treasurer may be performed by the Secretary.
- 7. The accounts of the Secretary and Treasurer shall be audited annually by a special committee of three members of Council, appointed by the President of the Society.

## ARTICLE VI.

## Meetings.

- I. There shall be at least one annual general meeting of the Society for the reading and discussion of professional papers, election of officers for the ensuing year, and transaction of such other business as may be brought before it. The time and location of this meeting shall be determined by the Council at least three months prior to the date fixed.
- 2. Special meetings may be called by the Executive Committee at the request of twenty members, which request shall state the purpose of the meeting. The call for such meetings shall be issued ten days in advance, and shall state the purpose thereof. At these meetings thirty members shall constitute a quorum.
  - 3. The Society may adopt, from time to time, such rules as it may think proper for the order of business at its meetings.
  - 4. Special meetings of the Executive Committee may be held at any time, subject to the call of the Chairman; and four members shall constitute a quorum for the transaction of any business that may be properly brought before the Committee.

### ARTICLE VII.

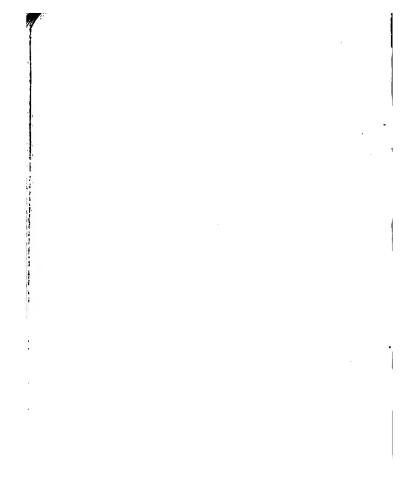
## Amendments.

I. Proposed amendments to the Constitution must be reduced to writing and signed by not less than ten members. They shall be forwarded to the Secretary at least ten days before the annual general meeting, and shall be immediately forwarded to the Council for its consideration. If a majority of the Council approve the proposed amendment it shall be presented to the Society at the next ensuing general meeting for discussion; if approved by two-thirds of the members present, voting by ballot, if a ballot be demanded, it shall be adopted.

# Society of Naval Architects and Marine Engineers

*FORM OF PROPOSAL OF MEMBER
Name in full
Date of Birth
Nationality
Post-Office Address
Date of Application
Professional position now
Date of Application Professional position now held, giving name and address of institution,
address of institution, firm or shipyard.
Brief statement of
technical train-
teennear train-
ing and profes-
sional experi-
ence, strict
attention being \
paid to the by-/
laws governing
applications for
admission to
membership.
•
[See Constitution.]
I certify that the above statements are correct, and, if
elected, pledge myself to abide by the constitution and by-
laws as at present in force or hereafter established, and, in the event of my ceasing to be a member, that I will
return for cancellation my certificate of membership in
the above society.
Signature of applicant
190
Having examined the above statement we the un-
Having examined the above statement, we, the undersigned, signify our approval thereof and recommend
Mr for election as a Member
Signatures of three )
members.
*Same form for Associates and Juniors, except that
the approval of only two members are required for Asso-
the approval of only two members are required for Associates, and not any for Juniors.

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## **TRANSACTIONS**

OF THE

# SOCIETY OF

# NAVAL ARCHITECTS

AND

# MARINE ENGINEERS

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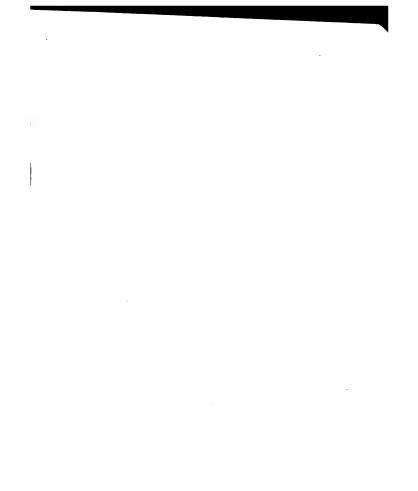
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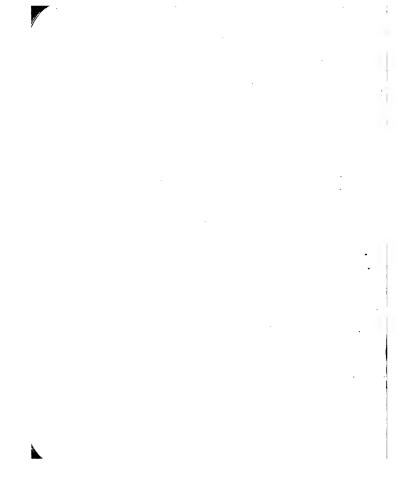
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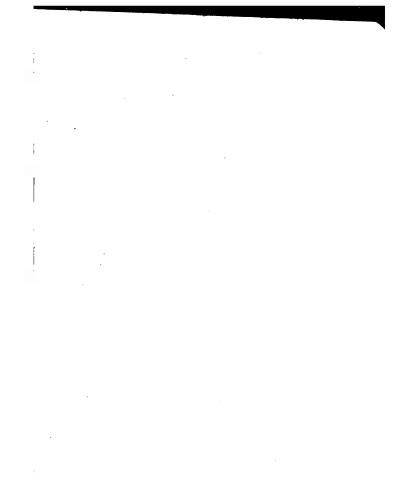
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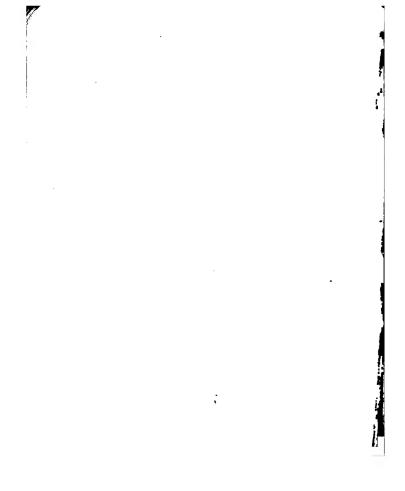


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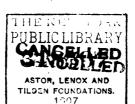
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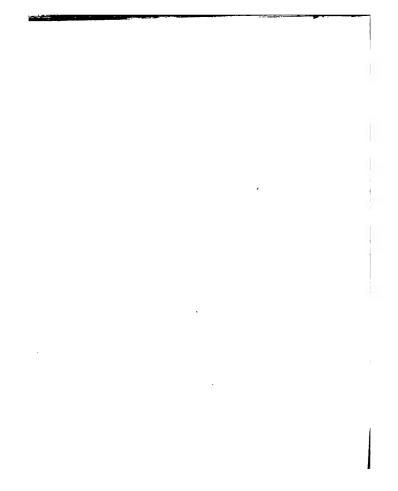
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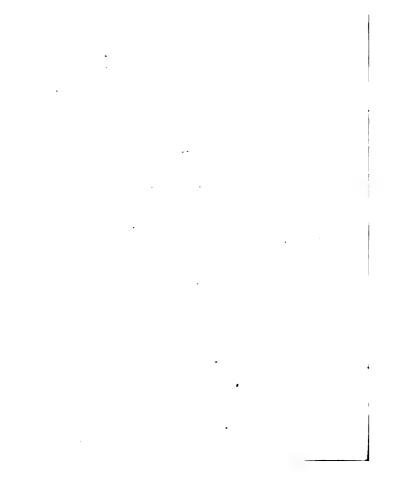
### Y

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# CONSTITUTION AND BY-LAWS OF THE SOCIETY OF \* Naval Architects and Marine Engineers



# CONSTITUTION AND BY-LAWS

# ARTICLE I.

# Name and Object.

- 1. The name of the Association shall be, "The Society of Naval Architects and Marine Engineers."
- 2. Its object shall be the promotion of the art of shipbuilding, commercial and naval.
- 3. In furtherance of this object, annual meetings shall be held for the reading and discussion of appropriate papers and interchange of professional ideas, thus making it possible to combine the results of experience and research on the part of shipbuilders, marine engineers, naval officers, yachtsmen, and those skilled in producing the material from which ships are built and equipped.

# ARTICLE II.

# Membership.

1. The Society shall consist of Members, Associates, Juniors, Honorary Members and Honorary Associates.

- 2. Members.—(1) The class of Members shall consist exclusively of Naval Architects, Marine and Mechanical Engineers, including Professors of Naval Architecture or Mechanical Engineering in colleges of established reputation.
- (2) A Candidate for this class must not be less than twenty-five years of age and comply with the following regulations: He shall submit to the Council a statement showing that he has been engaged in the practice of his profession, in a responsible capacity, for at least three years, and setting forth the grounds upon which he bases his claim to membership. This statement shall be signed by three members, who shall certify to their personal knowledge of the candidate and approval of his statement.
- (3) In the case of persons not American citizens, the signatures of three members shall be required in confirmation of their personal knowledge of the candidate's scientific attainments.
- (4) If three-fourths of the members of the Council present are in favor of the admission of the candidate his name shall be submitted to the members of the Society at the next meeting; the voting to be by ballot, should a ballot be demanded.
- 3. Associates.—(1) The class of Associates shall consist of all persons who, by profession,

occupation, or scientific attainments, are qualified to discuss the qualities of a ship.

- (2) Candidates for this class shall submit to the Council a written statement of their qualifications for membership. If considered by three-fourths of the Council present duly qualified for associate membership their names shall be submitted to the Society at the next meeting, to be voted upon by the Members and Associates; voting to be by ballot, should a ballot be demanded.
- 4. The proportion of favorable votes for deciding the election of Members and Associates shall be at least four-fifths of the number recorded.
- 5. Juniors.—(1) The class of Juniors shall consist of graduates of technical schools of established reputation, or persons who have had not less than two years' practical experience in marine engine works or shipyards.
- (2) Candidates must be at least eighteen years of age and certify their intention to continue in the profession and become naval architects and marine engineers.
- (3) Juniors shall be eligible for transfer to the class of Members after fulfilling the necessary conditions.
  - (4) The admission of Juniors shall be by a

favorable vote of three-fourths of the members of the Council present.

- (5) Juniors shall have no voice in the government of the Society or admission of members.
- 6. Honorary Members and Honorary Associates.—The Council may elect Honorary Members and Honorary Associates, the total number not to exceed twenty-five. They shall be persons of acknowledged eminence in their profession upon whom the Council may see fit to confer an honorary distinction.

### ARTICLE III.

### Dues.

1. The entrance fees, payable on admission to the Society, shall be as follows:

Members and Associates, ten dollars; Juniors, five dollars; Honorary Members and Honorary Associates, no fees.

- 2. The annual dues shall be as follows:
- Members and Associates, ten dollars; Juniors, five dollars; Honorary Members and Honorary Associates, no dues.
- 3. A member transferred from one grade to another shall pay the difference between the entrance fees of the two grades, and his annual dues shall be those of the grade to which transferred.

- 4. The annual contributions shall be payable in advance on the first day of January. The Secretary shall notify each member of the amount due for the ensuing year at the time of giving notice for the annual meeting. On election each member shall pay his entrance fee and annual dues for the current year and be entitled to rereive the proceedings of the annual meeting of the year during which he is elected.
- 5. Members and Associates can compound for all future dues and become Life Members or Life Associates by making a single payment of two hundred dollars and signing an agreement to conform to any future amendments to the Constitution and By-Laws.
- 6. Members are entitled to no return fees upon severing their connection with the Society.
- 7. Any member whose dues are more than three months in arrears shall be notified by the Secretary. Should his dues become six months in arrears he shall be again notified by the Secretary and his rights as a member suspended. Should his dues become one year in arrears the delinquent member shall forfeit his membership in the Society unless the Council may deem it expedient to extend the time of payment.
- 8. The Council may, in its discretion, temporarily suspend the annual payment of dues by any

member whose circumstances have become such as to make such payment impossible, and may, under similar circumstances, remit the whole or part of dues in arrears.

- 9. No name shall be entered on the rolls as Member, Associate or Junior, nor shall the privileges of membership be enjoyed until all dues shall have been paid; if the payment be delayed for more than six months from the date of election, the same shall be void unless the Council otherwise direct.
- 10. Should the expulsion of any member be judged expedient by five or more members, they must draw up and sign a proposal requesting such expulsion, delivering the same to the Secretary, to be laid before the Council.
- (2) If the Council do not find reason to concur in the proposal, no entry thereof shall appear in the minutes, nor shall any public discussion thereon be permitted.
- (3) If, however, the Council find the charges contained in the proposal for expulsion substantiated, the accused member shall be notified and given an opportunity to resign. If he avails himself of this privilege, no entry shall be made on the minutes nor public discussion of the case be permitted. But if he declines to resign and offers no satisfactory explanation of the charge,

the whole case shall be submitted to a special meeting of the Society.

(4) If two-thirds of the members at this special meeting (providing there be not less than twenty persons) vote for expulsion, the Chairman of the meeting shall cause the accused to be expelled from the Society, and direct the Secretary to notify the accused of this action.

# ARTICLE IV.

### Officers

- 1. The officers of the Society shall consist of a President, Past Presidents, twelve Vice-Presidents, twenty-four Members of Council, and a Secretary and Treasurer.
- 2. Both Members and Associates are eligible for the offices of President, Vice-President and Members of Council, but three-fourths of the Council shall be Members.
- 3. Prior to the date of the annual meeting of the Society of the year with which the term of the President expires, the Council shall nominate a candidate for the office of President, whose name shall be presented to the Society for election at the annual meeting. Any other candidate whose nomination, signed by at least sixty Members and Associates, shall have been submitted to the Secretary prior to the annual meeting shall

also be presented. The candidate receiving the highest number of votes shall be the President for the ensuing three years. The first President under this rule shall be elected at the annual meeting in 1906, and his term of office shall begin January 1st, 1907. The President shall not be eligible for election as his own successor.

- 4. The term of office of the Vice-Presidents shall be six years. Prior to the annual meeting in 1906 the Executive Committee shall by lot divide the present list of Vice-Presidents into six classes, so that the term of two of their number shall expire at the end of 1906, and two others at the end of 1907, and so on to the year 1911. The Vice-Presidents to fill the vacancies occurring each year in any class shall be elected by the Council from their own membership. Retiring Vice-Presidents shall be eligible for re-election.
- 5. The term of office of the Members of Council shall be three years. Prior to the annual meeting in 1906, the Executive Committee shall by lot divide the present list of Members of Council into three classes, each class consisting, as near as may be, of six Members and two Associates. The terms of office of the three classes shall expire at the end of the years 1906, 1907 and 1908 respectively. Retiring Members and Associates shall be eligible for re-election. Prior to

September 1st of each year, the Executive Committee shall prepare voting lists to fill the places of retiring Members and Associates, Members of the Council. The list shall contain the names of at least twelve Members and at least four Associates as candidates for the vacancies. The lists shall contain the names of all retiring Members and Associates who shall not have declined reelection, and of all candidates who shall have been nominated in writing by not less than twenty members in the case of Members, and not less than twenty members and associates in the case of Associates. No nominations received by the Secretary after August 15th shall be considered. Should such nominations not be sufficient in number to fill up lists of at least twelve Members and four Associates as candidates, the Executive Committee shall add sufficient names to fill out these numbers. The voting lists shall be mailed as soon as practicable after September 1st of each year to associates receiving the highest votes shall be de-Members and Associates. Each Member may vote for not more than six Members and two Associates for the Council, and each Associate vote for not more than two Associates. ballots shall be returned by mail to the Secretary and canvassed at the annual meeting. The six members receiving the highest votes shall be declared elected Members of Council, and the two associates receiving the highest votes shall be declared elected Associates, Members of Council, for the term of three years.

- 6. A vacancy in the office of President shall be filled by ballot by the Council from the list of Vice-Presidents until the end of the year in which it occurs. At the annual meeting of that year a new President shall be elected for three years in the manner prescribed in paragraph 3. A vacancy in the office of Members of Council shall be filled by the Council for the unexpired portion of the term of the Member or Associate causing the vacancy.
- 7. The Presidents, Past Presidents and Vice-Presidents shall be ex-officio members of Council.
- 8. The Council may hold meetings subject to the call of the President, as often as the interests of the Society may demand.
- 9. At all meetings of Council five members shall constitute a quorum.
- 10. The Secretary and Treasurer shall be elected annually by the Council, but may be removed at any time by a majority vote of the Council after due notice has been given.
- 11. The Secretary must be a member of the Society.

## ARTICLE V.

## Management.

- I. (1) The President shall have general supervision over the affairs of the Society, appoint special committees, and preside at the annual general meetings. He shall be *ex-officio* member of all committees.
- (2) In the absence of the President, the Vice-Presidents, in the order of seniority, shall preside and perform all the duties of the President.
- 2. The direct management of the Society shall be vested in an Executive Committee composed of five members of Council, elected annually by the Council, the President and Secretary of the Society being ex-officio members of the Committee. At least three of the five elective members of the Committee shall be Members of the Society.
- 3. The Executive Committee shall manage the affairs of the Society in conformity with the laws under which it is incorporated and the provisions of this Constitution. It shall direct the investment and care of the funds of the Society; make appropriations for specific purposes; arrange for the reading and publication of professional papers under such regulations as the Council may from time to time prescribe; take measures to advance

the interests of the Society, and generally direct its affairs.

- 4. The Executive Committee shall make an annual report to the Society, transmitting the report of the Secretary and Treasurer, and of any special committee which may have been ordered.
- 5. (1) The Secretary shall be the Executive Officer of the Society under the immediate direction of the President and the Executive Committee.
- (2) He shall prepare the business for the annual meetings and record the proceedings thereof.
- (3) He shall be responsible for all expenditures and certify the accuracy of all bills or vouchers upon which money has been paid, and he shall conduct the correspondence of the Society and keep full records of the same.
- 6. The Treasurer shall see that all money due the Society is collected and carefully invested in such manner as the Executive Committee may direct. If considered advisable by the Council, the duties of Treasurer may be performed by the Secretary.
- 7. The accounts of the Secretary and Treasurer shall be audited annually by a special committee of three members of Council, appointed by the President of the Society.

#### ARTICLE VI.

## Meetings.

- I. There shall be at least one annual general meeting of the Society for the reading and discussion of professional papers, election of officers for the ensuing year, and transaction of such other business as may be brought before it. The time and location of this meeting shall be determined by the Council at least three months prior to the date fixed.
- 2. Special meetings may be called by the Executive Committee at the request of twenty members, which request shall state the purpose of the meeting. The call for such meetings shall be issued ten days in advance, and shall state the purpose thereof. At these meetings thirty members shall constitute a quorum.
- 3. The Society may adopt, from time to time, such rules as it may think proper for the order of business at its meetings.
- 4. Special meetings of the Executive Committee may be held at any time, subject to the call of the Chairman; and four members shall constitute a quorum for the transaction of any business that may be properly brought before the Committee.

#### ARTICLE VII.

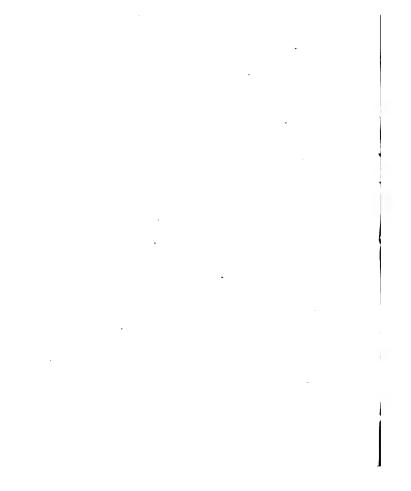
#### Amendments.

I. Proposed amendments to the Constitution must be reduced to writing and signed by not less than ten members. They shall be forwarded to the Secretary at least ten days before the annual general meeting, and shall be immediately forwarded to the Council for its consideration. If a majority of the Council approve the proposed amendment it shall be presented to the Society at the next ensuing general meeting for discussion; if approved by two-thirds of the members present, voting by ballot, if a ballot be demanded, it shall be adopted.

# Soicety of Naval Architects and Marine Engineers \*FORM OF PROPOSAL OF MEMBER

Name in full.....

Date of Birth
Nationality
Post-Office Address
Date of Application
Professional position now
held, giving name and
address of institution,
firm or shipyard.
Brief statement of
technical train-
ing and profes-
sional experi-
ence, strict
attention being \
paid to the by-
laws governing
applications for
admission to
membership.
[See Constitution.] )
I certify that the above statements are correct, and, if
elected, pledge myself to abide by the constitution and by-
laws as at present in force or hereafter established, and.
laws as at present in force or hereafter established, and, in the event of my ceasing to be a member, that I will
return for cancellation my certificate of membership in
the above society.
Signature of applicant
Having examined the above statement, we, the un-
dersigned, signify our approval thereof and recommend
Mrfor election as a Member.
Signature of three)
Signature of three
*Same form for Associates and Juniors, except that
"Same form for Associates and Juniors, except that
the approval of only two members are required for Associates, and not any for Juniors.
ciates, and not any for juniors.



## TRANSACTIONS

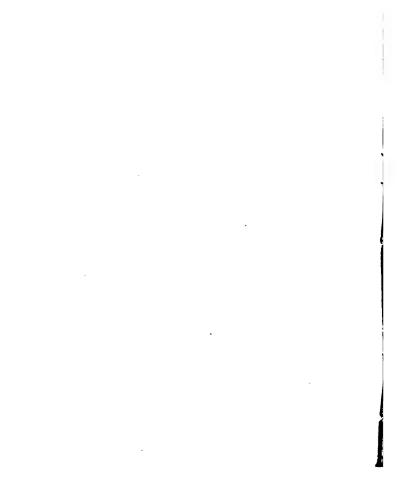
OF THE

SOCIETY OF ...

Naval Architects and

Marine Engineers

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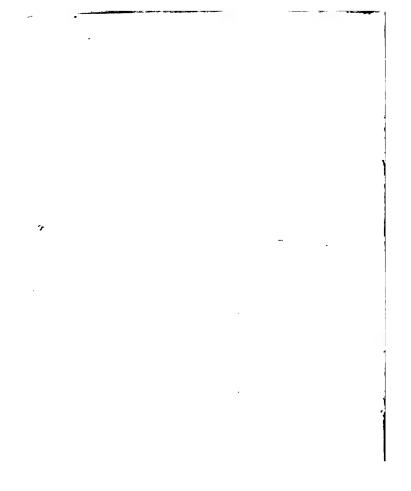
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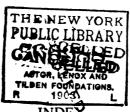
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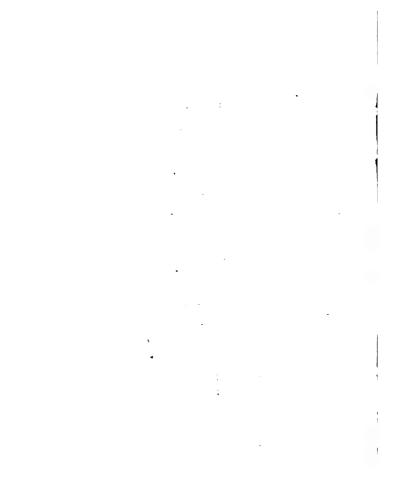
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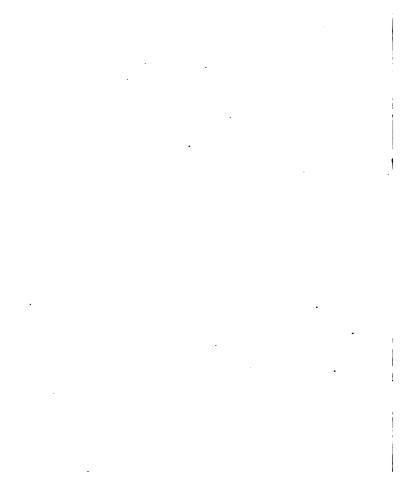


## CONSTITUTION AND BY-LAWS

----- OF THE -

Naval Architects and

Marine Engineers



#### CONSTITUTION AND BY-LAWS

#### ARTICLE I.

#### Name and Object.

- I. The name of the Association shall be, "The Society of Naval Architects and Marine Engineers"
- 2. Its object shall be the promotion of the art of shipbuilding, commercial and naval.
- 3. In furtherance of this object, annual meetings shall be held for the reading and discussion of appropriate papers and interchange of professional ideas, thus making it possible to combine the results of experience and research on the part of shipbuilders, marine engineers, naval officers, yachtsmen, and those skilled in producing the material from which ships are built and equipped.

#### ARTICLE II.

#### Membership.

I. The Society shall consist of Members, Associates, Juniors, Honorary Members and Honorary Associates.

- 2. Members.—(1) The class of Members shall consist exclusively of Naval Architects, Marine and Mechanical Engineers, including Professors of Naval Architecture or Mechanical Engineering in colleges of established reputation.
- (2) A Candidate for this class must not be less than twenty-five years of age and comply with the following regulations: He shall submit to the Council a statement showing that he has been engaged in the practice of his profession, in a responsible capacity, for at least three years, and setting forth the grounds upon which he bases his claim to membership. This statement shall be signed by three members, who shall certify to their personal knowledge of the candidate and approval of his statement.
- (3) In the case of persons not American citizens, the signatures of three members shall be required in confirmation of their personal knowledge of the candidate's scientific attainments.
- (4) If three-fourths of the members of the Council present are in favor of the admission of the candidate his name shall be submitted to the members of the Society at the next meeting; the voting to be by ballot, should a ballot be demanded.
- 3. Associates.—(1) The class of Associates shall consist of all persons who, by profession,

occupation, or scientific attainments, are qualified to discuss the qualities of a ship.

- (2) Candidates for this class shall submit to the Council a written statement of their qualifications for membership. If considered by three-fourths of the Council present duly qualified for associate membership their names shall be submitted to the Society at the next meeting, to be voted upon by the Members and Associates; voting to be by ballot, should a ballot be demanded.
- 4. The proportion of favorable votes for deciding the election of Members and Associates shall be at least four-fifths of the number recorded.
- 5. Juniors.—(1) The class of Juniors shall consist of graduates of technical schools of established reputation, or persons who have had not less than two years' practical experience in marine engine works or shipyards.
  - (2) Candidates must be at least eighteen years of age and certify their intention to continue in the profession and become naval architects and marine engineers.
  - (3) Juniors shall be eligible for transfer to the class of Members after fulfilling the necessary conditions.
    - (4) The admission of Juniors shall be by a

favorable vote of three-fourths of the members of the Council present.

- (5) Juniors shall have no voice in the government of the Society or admission of members.
- 6. Honorary Members and Honorary Associates.—The Council may elect Honorary Members and Honorary Associates, the total number not to exceed twenty-five. They shall be persons of acknowledged eminence in their profession upon whom the Council may see fit to confer an honorary distinction.

#### ARTICLE III.

#### Dues.

1. The entrance fees, payable on admission to the Society, shall be as follows:

Members and Associates, ten dollars; Juniors, five dollars; Honorary Members and Honorary Associates, no fees.

2. The annual dues shall be as follows:

Members and Associates, ten dollars; Juniors, five dollars; Honorary Members and Honorary Associates. no dues.

3. A member transferred from one grade to another shall pay the difference between the entrance fees of the two grades, and his annual dues shall be those of the grade to which transferred.

- 4. The annual contributions shall be payable in advance on the first day of January. The Secretary shall notify each member of the amount due for the ensuing year at the time of giving notice for the annual meeting. On election each member shall pay his entrance fee and annual dues for the current year and be entitled to rereive the proceedings of the annual meeting of the year during which he is elected.
- 5. Members and Associates can compound for all future dues and become Life Members or Life Associates by making a single payment of two hundred dollars and signing an agreement to conform to any future amendments to the Constitution and By-Laws.
- 6. Members are entitled to no return fees upon severing their connection with the Society.
- 7. Any member whose dues are more than three months in arrears shall be notified by the Secretary. Should his dues become six months in arrears he shall be again notified by the Secretary and his rights as a member suspended. Should his dues become one year in arrears the delinquent member shall forfeit his membership in the Society unless the Council may deem it expedient to extend the time of payment.
- 8. The Council may, in its discretion, temporarily suspend the annual payment of dues by any

member whose circumstances have become such as to make such payment impossible, and may, under similar circumstances, remit the whole or part of dues in arrears.

- 9. No name shall be entered on the rolls as Member, Associate or Junior, nor shall the privileges of membership be enjoyed until all dues shall have been paid; if the payment be delayed for more than six months from the date of election, the same shall be void unless the Council otherwise direct.
- 10. Should the expulsion of any member be judged expedient by five or more members, they must draw up and sign a proposal requesting such expulsion, delivering the same to the Secretary, to be laid before the Council.
- (2) If the Council do not find reason to concur in the proposal, no entry thereof shall appear in the minutes, nor shall any public discussion thereon be permitted.
- (3) If, however, the Council find the charges contained in the proposal for expulsion substantiated, the accused member shall be notified and given an opportunity to resign. If he avails himself of this privilege, no entry shall be made on the minutes nor public discussion of the case be permitted. But if he declines to resign and offers no satisfactory explanation of the charge,

the whole case shall be submitted to a special meeting of the Society.

(4) If two-thirds of the members at this special meeting (providing there be not less than twenty persons) vote for expulsion, the Chairman of the meeting shall cause the accused to be expelled from the Society, and direct the Secretary to notify the accused of this action.

#### ARTICLE IV.

#### Officers.

- 1. The officers of the Society shall consist of a President, Past Presidents, twelve Vice-Presidents, twenty-four Members of Council, and a Secretary and Treasurer.
- 2. Both Members and Associates are eligible for the offices of President, Vice-President and Members of Council, but three-fourths of the Council shall be Members.
- 3. Prior to the date of the annual meeting of the Society of the year with which the term of the President expires, the Council shall nominate a candidate for the office of President, whose name shall be presented to the Society for election at the annual meeting. Any other candidate whose nomination, signed by at least sixty Members and Associates, shall have been submitted to the Secretary prior to the annual meeting shall

also be presented. The candidate receiving the highest number of votes shall be the President for the ensuing three years. The first President under this rule shall be elected at the annual meeting in 1906, and his term of office shall begin January 1st, 1907. The President shall not be eligible for election as his own successor.

- 4. The term of office of the Vice-Presidents shall be six years. Prior to the annual meeting in 1906 the Executive Committee shall by lot divide the present list of Vice-Presidents into six classes, so that the term of two of their number shall expire at the end of 1906, and two others at the end of 1907, and so on to the year 1911. The Vice-Presidents to fill the vacancies occurring each year in any class shall be elected by the Council from their own membership. Retiring Vice-Presidents shall be eligible for re-election.
- 5. The term of office of the Members of Council shall be three years. Prior to the annual meeting in 1906, the Executive Committee shall by lot divide the present list of Members of Council into three classes, each class consisting, as near as may be, of six Members and two Associates. The terms of office of the three classes shall expire at the end of the years 1906, 1907 and 1908 respectively. Retiring Members and Associates shall be eligible for re-election. Prior to

September 1st of each year, the Executive Committee shall prepare voting lists to fill the places of retiring Members and Associates, Members of the Council. The list shall contain the names of at least twelve Members and at least four Associates as candidates for the vacancies. The lists shall contain the names of all retiring Members and Associates who shall not have declined reelection, and of all candidates who shall have been nominated in writing by not less than twenty members in the case of Members, and not less than twenty members and associates in the case of Associates. No nominations received by the Secretary after August 15th shall be considered. Should such nominations not be sufficient in number to fill up lists of at least twelve Members and four Associates as candidates, the Executive Committee shall add sufficient names to fill out these numbers. The voting lists shall be mailed as soon as practicable after September 1st of each year to Members and Associates. Each Member may vote for not more than six Members and two Associates for the Council, and each Associate vote for not more than two Associates. The ballots shall be returned by mail to the Secretary and canvassed at the annual meeting. The six members receiving the highest votes shall be declared elected Members of Council, and the two associates receiving the highest votes shall be declared elected Associate Members of Council, for the term of three years.

- 6. A vacancy in the office of President shall be filled by ballot by the Council from the list of Vice-Presidents until the end of the year in which it occurs. At the annual meeting of that year a new President shall be elected for three years in the manner prescribed in paragraph 3. A vacancy in the office of Members of Council shall be filled by the Council for the unexpired portion of the term of the Member or Associate causing the vacancy.
- 7. The Presidents, Past Presidents and Vice-Presidents shall be ex-officio members of Council.
- 8. The Council may hold meetings subject to the call of the President, as often as the interests of the Society may demand.
- 9. At all meetings of Council five members shall constitute a quorum.
- 10. The Secretary and Treasurer shall be elected annually by the Council, but may be removed at any time by a majority vote of the Council after due notice has been given.
- 11. The Secretary must be a member of the Society.

#### ARTICLE V.

#### Management. .

- 1. (1) The President shall have general supervision over the affairs of the Society, appoint special committees, and preside at the annual general meetings. He shall be ex-officio member of all committees.
- (2) In the absence of the President, the Vice-Presidents, in the order of seniority, shall preside and perform all the duties of the President.
- 2. The direct management of the Society shall be vested in an Executive Committee composed of five members of Council, elected annually by the Council, the President and Secretary of the Society being ex-officio members of the Committee. At least three of the five elective members of the Committee shall be Members of the Society.
- 3. The Executive Committee shall manage the affairs of the Society in conformity with the laws under which it is incorporated and the provisions of this Constitution. It shall direct the investment and care of the funds of the Society; make appropriations for specific purposes; arrange for the reading and publication of professional papers under such regulations as the Council may from time to time prescribe; take measures to advance

the interests of the Society, and generally direct its affairs.

- 4. The Executive Committee shall make an annual report to the Society, transmitting the report of the Secretary and Treasurer, and of any special committee which may have been ordered.
- 5. (1) The Secretary shall be the Executive Officer of the Society under the immediate direction of the President and the Executive Committee.
- (2) He shall prepare the business for the annual meetings and record the proceedings thereof.
- (3) He shall be responsible for all expenditures and certify the accuracy of all bills or vouchers upon which money has been paid, and he shall conduct the correspondence of the Society and keep full records of the same.
- 6. The Treasurer shall see that all money due the Society is collected and carefully invested in such manner as the Executive Committee may direct. If considered advisable by the Council, the duties of Treasurer may be performed by the Secretary.
- 7. The accounts of the Secretary and Treasurer shall be audited annually by a special committee of three members of Council, appointed by the President of the Society.

#### ARTICLE VI.

#### Meetings.

- I. There shall be at least one annual general meeting of the Society for the reading and discussion of professional papers, election of officers for the ensuing year, and transaction of such other business as may be brought before it. The time and location of this meeting shall be determined by the Council at least three months prior to the date fixed.
- 2. Special meetings may be called by the Executive Committee at the request of twenty members, which request shall state the purpose of the meeting. The call for such meetings shall be issued ten days in advance, and shall state the purpose thereof. At these meetings thirty members shall constitute a quorum.
- 3. The Society may adopt, from time to time, such rules as it may think proper for the order of business at its meetings.
- 4. Special meetings of the Executive Committee may be held at any time, subject to the call of the Chairman; and four members shall constitute a quorum for the transaction of any business that may be properly brought before the Committee.

#### ARTICLE VII.

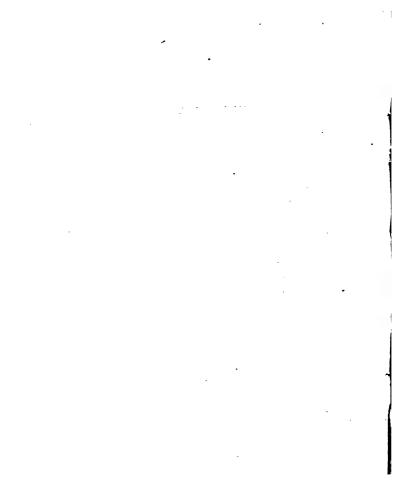
#### Amendments.

I. Proposed amendments to the Constitution must be reduced to writing and signed by not less than ten members. They shall be forwarded to the Secretary at least ten days before the annual general meeting, and shall be immediately forwarded to the Council for its consideration. If a majority of the Council approve the proposed amendment it shall be presented to the Society at the next ensuing general meeting for discussion; if approved by two-thirds of the members present, voting by ballot, if a ballot be demanded, it shall be adopted.



### Soicety of Naval Architects and Marine Engineers \*FORM OF PROPOSAL OF MEMBER

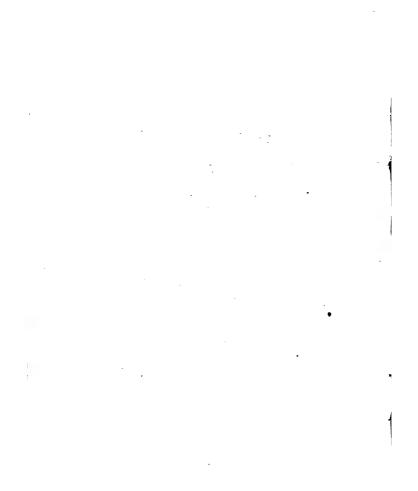
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I certify that the	above statem	ents are con	rrect, and, if
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Signature of a	pplicant		
			190
Having examined	the above	statement.	we, the un-
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# TRANSACTIONS of the SOCIETY OF Naval Architects and

Marine Engineers

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  - L. D. Davis, Esq., M. E. President Davis-Farrar Co.
- T4 "Recent Light-draught Gunboats of U. S. N."
  J. J. WOODWARD, Naval Constructor, U. S. N.
- 15. "An Approximate Formula for the Wetted Surface of Ships." Profs. W. F. DURAND and GEO. R. McDermott, Cornell University.

#### **VOLUME III. (1895)**

300 Pages. 57 Plates and Drawings.

#### PAPERS.

- "American Maritime Development."
   CAPT. HENRY C. TAYLOR, U. S. N., President, Naval War College.
- "The Centreboard—Its Influence on Design; Its Value and Proper Use."
   WM. P. STEPHENS. Esq.
- 3. "Rudder Experiments—U. S. S. 'Monterey'."

  Elliott Snow, Asst. Naval Constructor, U. S. N.
- 4. "Aluminum—Its Alloys and Their Use in Ship Construction."

  J. C. McGuire, Esg., C. E.
- 5. "Methods and Forms for Certain Ship Calculations."

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- "The Number of Longitudinal Intervals in Ship Computation, as Affecting the Accuracy of Integration for Displacement," and True Wetted Surface."
   Prof. W. F. DURAND, Cornell University.
- "Recent Designs for Vessels for the U. S. Navy."
   Philip Hichborn, Chief Constructor, U. S. N.
- 8. "Tactical Considerations Involved in War Ship Design."

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- "Engineering Research in the Navy." Prof. WM. S. ALDRICH, University of West Virginia.
- "Performance of the Twin-Screw Steamer 'City of Lowell.'" Prof. JAMES E. DENTON, Stevens Institute of Technology.
- 11. "The Ventilation of Ships." F. B. Dowst, Esq., M. E.
- "An Experimental Test of the Armored Side of the U.S.S. 'Iowa.'" ALBERT W. STAHL, Naval Constructor, U. S. N.

#### **VOLUME IV. (1896)**

209 Pages. 58 Plates and Drawings.

#### PAPERS.

- "Test of an Experimental Turret of the U. S. Battleship 'Massachusetts.'" Commodore W. T. SAMPSON, U. S. N., Chief of Bureau of Ordnance, Navy Department, Wash-.. ington, D. C.
- "Steel Canal Boats." LEWIS NIXON, Manager, Crescent Shipyard, Elizabeth, N. J.
- "Naval Practice in Ship Rivets and Rivet-3. ing."

- 4. "American Fire-Boats."

  H. DEB. PARSONS, Marine Engineer.
- "Corn-Pith Cellulose."
   Henry W. Cramp, Vice-President, Wm. Cramp
  & Sons, Philadelphia, Pa.
- 6. "The New Battle-Ships."

  Chief Constructor Philip Hichborn, U. S. N.
- "Speed Trials of a Screw-Propelled Ferry-Boat."
  - F. L. DuBosque, Engineer, Floating Equipment, Pennsylvania Railroad.
- 8. "Hydraulic Sheers for Lifting One Hundred and Twenty-Five Tons."

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FRANK B. KING, Marine Engineer and Naval Architect.

 "A Method of Calculating the Stability of Ships Adapted to the Use of Standard Curves of Stability." Hugo Hammar, Naval Architect.

- "Stability of a Ship in Damaged Condition."
   Prof. James Swan, Massachusetts Institute of Technology.
- II. "Damaged Conditions as Affecting the Stability and Fighting Efficiency of Battle-Ships."

  Assistant Naval Constructor T. F. RUHM, U.S.N.
- 12. "Screw Propellers."
  Prof. GEO. R. McDermott, Cornell University.

#### **VOLUME V. (1897)**

247 Pages. 67 Plates and Drawings.

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- "Water-Tight Bulkhead Doors the 'Long Arm' System on the U. S. S. 'Chicago.'"
   WM. BARNUM COWLES, Esq.
- "Regulations for Loading Vessels." Lewis Nixon, Esq., Manager, Crescent Shipyard.
- 3. "Torpedo Boat Design."

  Asst. Naval Constructor, H. G. GILLMOR, U.S.N.
- 4. "The Commerce of the Great Lakes."
  C. E. Wheeler, Esq.
- "Progressive Trials of the 'Guardian.'"
   Prof. C. H. Peabley, Mass. Institute Technology.
- "An Experimental Study of the Influence of Surface upon the Performance of Screw Propellers." Preliminary paper.
   Prof. W. F. DURAND, Cornell University.
- "Some Notes on the Speed Trials and Experience in Commission of our New Battleships."
   Chief Constructor PHILIP HICHBORN, U. S. N.
- 8. "Use of Water Ballast for Colliers in the Pacific Coast Trade."
  Hugo P. Frear, Esq., Naval Architect.
- 9. "Estimated Weights of Machinery."
  Prof. Geo. R. McDermort, Cornell University.

- 10. "Navy Yard Expenses."
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- 11. "Pneumatic Steering Gear—as Applied to the U. S. Monitor 'Terror.'"
  H. A. SPILLER, Esq.

# **VOLUME VI. (1898)**

217 Pages. 120 Plates and Drawings.

#### PAPERS.

- I. "The Standard Navy Boats."
  ARTHUR B. CASSIDY, Esq.
- 2. "Bilge Keels and Rolling Experiments— U. S. S. 'Oregon.'"

  Asst. Naval Constructor LAWRENCE SPEAR,
  U. S. N.
- "Portable Pneumatic Riveters in Shipbuilding."
   W. I. Babcock, Esq., Manager, Chicago Shipbuilding Co.
- 4. "Torpedo Boat Destroyers for Sea Service, with Special Reference to the Conditions that Prevail on the Pacific Coast."
  - G. W. DICKIE, Esq., Manager, Union Iron Works, San Francisco.

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- "The Steam Yacht as a Naval Auxiliary."
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- "Designs of the New Vessels for the U. S. Navy."
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- "Test of the Strength of a Longitudinal Bulkhead Separating Two Engine Rooms." Naval Constructor J. J. WOODWARD, U. S. N.
- "An Electrically Operated 150-Ton Revolving Derrick."
   WALTER A. POST, Esq., Manager, Newport News Shipbuilding and Dry Dock Co.
- "Stability of a Battleship under Damaged Conditions."

Topical Discussion-

Prof. CECIL H. PEABODY, Massachusetts Institute of Technology.

- Ist.—Under the circumstances of a blockade at Santiago, which was the more economical method of maintaining the boilers in readiness for immediate action banking the fires or keeping them spread but very thin?
- 2d.—As a result of experience on the blockade, what particular points about the machinery were most likely to give trouble, and what could be done to prevent a recurrence of such trouble?

# VOLUME VII. (1899)

285 Pages. 105 Plates and Drawings.

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I. "Coaling Vessels at Sea."

SPENCER MILLER, Esq.

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- "Causes for the Adoption of Water-Tube Boilers in the U. S. Navy."
   Engineer-in-Chief Geo. W. Melville, U. S. N.
- "Suggestions as to Improved Appliances for Launching Ships' Boats."
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- "The Electric Plants of the Battleships 'Kear-sarge' and 'Kentucky'."
   Naval Constructor J. J. WOODWARD, U. S. N.
- "The Increasing Complications in Warships, and How Simpler Arrangements might be Adopted."
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  - GEO. W. DICKIE, Esq., Manager, Union Iron Works.
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   H. F. Norton, Esq.
- "Notes on the Sheathing of the U. S. S. Chesapeake."
   Naval Constructor LLOYD BANKSON, U. S. N.
- "System of Work in a Great Lake Shipyard."
   W. I. Babcock, Esq., Manager, Chicago Shipbuilding Co.

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11. "Novelties in Ship Fittings."

Asst. Naval Constructor R. M. Watt, U. S. N.

12. "Progressive Speed Trials of the U. S. S. Manning."

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 "Tactical Considerations Involved in Torpedo-Boat Design."
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14. "On the Action of the Rudder, with Special Reference to the Motion of the Ship while the Helm is being put over."
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Prof. Wm. F. Durand, Sibley College, Cornell University.

# VOLUME VIII. (1900)

275 Pages. 151 Plates and Drawings.

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 "Capacity Test of a Unique Form of Air Pump."

F. MERIAM WHEELER, Esq.

"Interchangeability of Units for Marine Work."

W. D. Forbes, Esq.

3. "The Performance of the Imperial Russian Cruiser Variag."

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- 5. "The Composition and Classification of Paints and Varnishes."

  Prof. A. H. Sabin.
- "Tests of the Electric Plants of the Battleships Kearsarge and Kentucky." Naval Constructor J. J. Woodward, U. S. N.
- "Coaling of the U. S. S. Massachusetts at Sea."
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- "Notes on Recent Improvements in Foreign Shipbuilding Plants."
   Asst. Naval Constructor H. G. GILLMOR, U.S.N.
- "Can the American Shipbuilder under Present Conditions Compete with the British and German Shipbuilders in the Production of the Largest Class of Ocean Passenger and Freight Steamships?

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- 10. "Classification Rules."
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- II. "Recent Designs of Battleships and Cruisers of the U. S. N."

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12. "A Comparison of the Contract Prices of our Naval Vessels."

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- 13. "Launch of a Cruiser and a Battleship." JAMES DICKIE, Esq., Supt., Union Iron Works, San Francisco.
- 14. "Safety of Torpedo Boats at Sea and in Action Under Various Conditions." Naval Constructor ILOYD BANKSON, U. S. N.

# **VOLUME IX. (1901)**

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#### PAPERS.

- "Trial of Speed between the Steamers 'City of Erie' and 'Tashmoo.'"
   FRANK E. KIRBY, Esq.
- "Effect of Variation of Dimensions on the Stresses in a Ship's Structure." Professor H. C. SADLER, Esq.
- "Power Consumed in Propelling the Whitehead Torpedo at Various Speeds."
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5. "The Theoretical and Practical Methods of Balancing Marine Engines." (Prize Competition Paper.)

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7. "Changes in Torpedo Boat Designs."
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8. "Late Developments in Armor and Ordnance."

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11. "Side Launch of Torpedo Boats and Torpedo Boat Destroyers."

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# **VOLUME X. (1902)**

377 Pages. 108 Plates and Drawings.

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- I. "Technical Training for Shipbuilders."
  HENRY S. PRITCHETT, Ph.D., LL.D.
- 2. "Progressive Trials of the Screw Ferry Boat 'Edgewater."

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- 3. "The Possible and Probable Future Developments in the Use of Electricity on Board Ships."
  - F. O. BLACKWELL, Esq.
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Rear-Admiral Francis T. Bowles, Chief Constructor, U. S. N.

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12. "Why it Takes So Long Time to Build and Equip a Naval Vessel for the United States."

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15. "The Balancing of Valve Gears." (Prize Competition Paper.)
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# **VOLUME XI. (1903)**

353 Pages. 148 Plates and Drawings.

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- 1. "Progressive Trial of Ferry Boat 'Bremen.'" EDWIN A. STEVENS, Esq.
- "Notes on the Arrangements and Construction of Steam Pipes and their Connections." R. C. MONTEAGLE, Esq.
- "Gasoline Engines for Marine Propulsion." 3. D. H. Cox, Esq.
- "Some Thoughts on the Design of Modern Steam Yachts." CLINTON H. CRANE, Esq.
- 5. "Watertight Subdivision of Warships." Commander WM. Hovgaard, Royal Danish Navv.
- "Non-corrosive Nickel Steel Boiler Tubes." ALBERT LADD COLBY, Esq.
- "Curves of Form of the Initial Condition." 7. GEORGE C. COOK. Esq.
- 8. "The Metric System in Relation to the Shipbuilding Industry in the United States." Naval Constructor J. H. LINNARD, U. S. N.
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- "Description of the Design and Building of 10. the 21,000-ton Steamships 'Minnesota' and 'Dakota.'"

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- 17. "Some Notes on the Performance of the Torpedo Vessels of the U. S. Navy at Sea." Lieut. L. H. CHANDLER, U. S. N.

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# VOLUME XIII. (1905)

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- "Some Problems in Ferry Boat Propulsion." Colonel EDWIN A. STEVENS, Vice-President.
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# VOLUME XIV. (1906)

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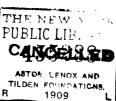
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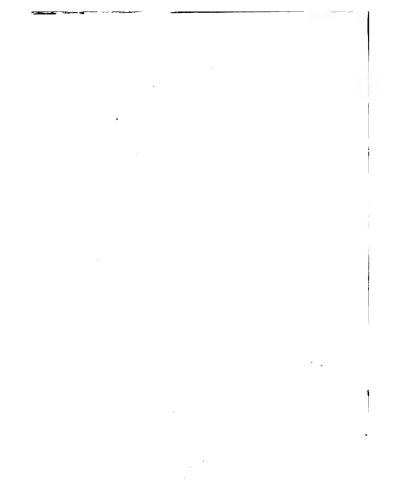
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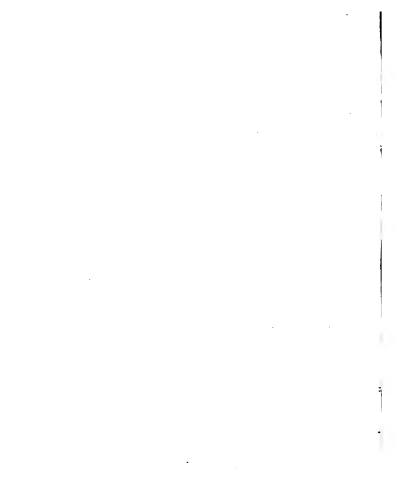
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Naval Architects and
Marine Engineers



# CONSTITUTION AND BY-LAWS

## ARTICLE I.

# Name and Object.

- I. The name of the Association shall be, "The Society of Naval Architects and Marine Engineers."
- 2. Its object shall be the promotion of the art of shipbuilding, commercial and naval.
- 3. In furtherance of this object, annual meetings shall be held for the reading and discussion of appropriate papers and interchange of professional ideas, thus making it possible to combine the results of experience and research on the part of shipbuilders, marine engineers, naval officers, yachtsmen, and those skilled in producing the material from which ships are built and equipped.

# ARTICLE II.

# Membership.

1. The Society shall consist of Members, Associates, Juniors, Honorary Members and Honorary Associates.

- 2. Members.—(I) The class of Members shall consist exclusively of Naval Architects, Marine and Mechanical Engineers, including Professors of Naval Architecture or Mechanical Engineering in colleges of established reputation.
- (2) A Candidate for this class must not be less than twenty-five years of age and comply with the following regulations: He shall submit to the Council a statement showing that he has been engaged in the practice of his profession, in a responsible capacity, for at least three years, and setting forth the grounds upon which he bases his claim to membership. This statement shall be signed by three members, who shall certify to their personal knowledge of the candidate and approval of his statement.
- (3) In the case of persons not American citizens, the signatures of three members shall be required in confirmation of their personal knowledge of the candidate's scientific attainments.
- (4) If three-fourths of the members of the Council present are in favor of the admission of the candidate his name shall be submitted to the members of the Society at the next meeting; the voting to be by ballot, should a ballot be demanded.
- 3. Associates.—(1) The class of Associates shall consist of all persons who, by profession,

occupation, or scientific attainments, are qualified to discuss the qualities of a ship.

- (2) Candidates for this class shall submit to the Council a written statement of their qualifications for membership. If considered by three-fourths of the Council present duly qualified for associate membership their names shall be submitted to the Society at the next meeting, to be voted upon by the Members and Associates; voting to be by ballot, should a ballot be demanded.
- 4. The proportion of favorable votes for deciding the election of Members and Associates shall be at least four-fifths of the number recorded.
- 5. Juniors.—(1) The class of Juniors shall consist of graduates of technical schools of established reputation, or persons who have had not less than two years' practical experience in marine engine works or shipyards.
- (2) Candidates must be at least eighteen years of age and certify their intention to continue in the profession and become naval architects and marine engineers.
- (3) Juniors shall be eligible for transfer to the class of Members after fulfilling the necessary conditions.
  - (4) The admission of Juniors shall be by a

favorable vote of three-fourths of the members of the Council present.

- (5) Juniors shall have no voice in the government of the Society or admission of members.
- 6. Honorary Members and Honorary Associates.—The Council may elect Honorary Members and Honorary Associates, the total number not to exceed twenty-five. They shall be persons of acknowledged eminence in their profession upon whom the Council may see fit to confer an honorary distinction.

# ARTICLE III.

# Dues.

I. The entrance fees, payable on admission to the Society, shall be as follows:

Members and Associates, ten dollars; Juniors, five dollars; Honorary Members and Honorary Associates, no fees.

2. The annual dues shall be as follows:

Members and Associates, ten dollars; Juniors, five dollars; Honorary Members and Honorary Associates, no dues.

3. A member transferred from one grade to another shall pay the difference between the entrance fees of the two grades, and his annual dues shall be those of the grade to which transferred.

- 4. The annual contributions shall be payable in advance on the first day of January. The Secretary shall notify each member of the amount due for the ensuing year at the time of giving notice for the annual meeting. On election each member shall pay his entrance fee and annual dues for the current year and be entitled to rereive the proceedings of the annual meeting of the year during which he is elected.
- 5. Members and Associates can compound for all future dues and become Life Members or Life Associates by making a single payment of two hundred dollars and signing an agreement to conform to any future amendments to the Constitution and By-Laws.
- 6. Members are entitled to no return fees upon severing their connection with the Society.
- 7. Any member whose dues are more than three months in arrears shall be notified by the Secretary. Should his dues become six months in arrears he shall be again notified by the Secretary and his rights as a member suspended. Should his dues become one year in arrears the delinquent member shall forfeit his membership in the Society unless the Council may deem it expedient to extend the time of payment.
- 8. The Council may, in its discretion, temporarily suspend the annual payment of dues by any

member whose circumstances have become such as to make such payment impossible, and may, under similar circumstances, remit the whole or part of dues in arrears.

- 9. No name shall be entered on the rolls as Member, Associate or Junior, nor shall the privileges of membership be enjoyed until all dues shall have been paid; if the payment be delayed for more than six months from the date of election, the same shall be void unless the Council otherwise direct.
- 10. Should the expulsion of any member be judged expedient by five or more members, they must draw up and sign a proposal requesting such expulsion, delivering the same to the Secretary, to be laid before the Council.
- (2) If the Council do not find reason to concur in the proposal, no entry thereof shall appear in the minutes, nor shall any public discussion thereon be permitted.
- (3) If, however, the Council find the charges contained in the proposal for expulsion substantiated, the accused member shall be notified and given an opportunity to resign. If he avails himself of this privilege, no entry shall be made on the minutes nor public discussion of the case be permitted. But if he declines to resign and offers no satisfactory explanation of the charge,

the whole case shall be submitted to a special meeting of the Society.

(4) If two-thirds of the members at this special meeting (providing there be not less than twenty persons) vote for expulsion, the Chairman of the meeting shall cause the accused to be expelled from the Society, and direct the Secretary to notify the accused of this action.

# ARTICLE IV.

# Officers.

- I. The officers of the Society shall consist of a President, Past Presidents, twelve Vice-Presidents, twenty-four Members of Council, and a Secretary and Treasurer.
- 2. Both Members and Associates are eligible for the offices of President, Vice-President and Members of Council, but three-fourths of the Council shall be Members.
- 3. Prior to the date of the annual meeting of the Society of the year with which the term of the President expires, the Council shall nominate a candidate for the office of President, whose name shall be presented to the Society for election at the annual meeting. Any other candidate whose nomination, signed by at least sixty Members and Associates, shall have been submitted to the Secretary prior to the annual meeting shall

also be presented. The candidate receiving the highest number of votes shall be the President for the ensuing three years. The first President under this rule shall be elected at the annual meeting in 1906, and his term of office shall begin January 1st, 1907. The President shall not be eligible for election as his own successor.

- 4. The term of office of the Vice-Presidents shall be six years. Prior to the annual meeting in 1906 the Executive Committee shall by lot divide the present list of Vice-Presidents into six classes, so that the term of two of their number shall expire at the end of 1906, and two others at the end of 1907, and so on to the year 1911. The Vice-Presidents to fill the vacancies occurring each year in any class shall be elected by the Council from their own membership. Retiring Vice-Presidents shall be eligible for re-election.
- 5. The term of office of the Members of Council shall be three years. Prior to the annual meeting in 1906, the Executive Committee shall by lot divide the present list of Members of Council into three classes, each class consisting, as near as may be, of six Members and two Associates. The terms of office of the three classes shall expire at the end of the years 1906, 1907 and 1908 respectively. Retiring Members and Associates shall be eligible for re-election. Prior to

September 1st of each year, the Executive Committee shall prepare voting lists to fill the places of retiring Members and Associates. Members of the Council. The list shall contain the names of at least twelve Members and at least four Associates as candidates for the vacancies. The lists shall contain the names of all retiring Members and Associates who shall not have declined reelection, and of all candidates who shall have been nominated in writing by not less than twenty members in the case of Members, and not less than twenty members and associates in the case of Associates. No nominations received by the Secretary after August 15th shall be considered. Should such nominations not be sufficient in number to fill up lists of at least twelve Members and four Associates as candidates, the Executive Committee shall add sufficient names to fill out these numbers. The voting lists shall be mailed as soon as practicable after September 1st of each year to Members and Associates. Each Member may vote for not more than six Members and two Associates for the Council, and each Associate vote for not more than two Associates. ballots shall be returned by mail to the Secretary and canvassed at the annual meeting. The six members receiving the highest votes shall be declared elected Members of Council, and the two

associates receiving the highest votes shall be declared elected Associate Members of Council, for the term of three years.

- 6. A vacancy in the office of President shall be filled by ballot by the Council from the list of Vice-Presidents until the end of the year in which it occurs. At the annual meeting of that year a new President shall be elected for three years in the manner prescribed in paragraph 3. A vacancy in the office of Members of Council shall be filled by the Council for the unexpired portion of the term of the Member or Associate causing the vacancy.
- 7. The Presidents, Past Presidents and Vice-Presidents shall be ex-officio members of Council.
- 8. The Council may hold meetings subject to the call of the President, as often as the interests of the Society may demand.
- 9. At all meetings of Council five members shall constitute a quorum.
- 10. The Secretary and Treasurer shall be elected annually by the Council, but may be removed at any time by a majority vote of the Council after due notice has been given.
- II. The Secretary must be a member of the Society.

## ARTICLE V.

## Management.

- 1. (1) The President shall have general supervision over the affairs of the Society, appoint special committees, and preside at the annual general meetings. He shall be ex-officio member of all committees.
- (2) In the absence of the President, the Vice-Presidents, in the order of seniority, shall preside and perform all the duties of the President.
- 2. The direct management of the Society shall be vested in an Executive Committee composed of five members of Council, elected annually by the Council, the President and Secretary of the Society being ex-officio members of the Committee. At least three of the five elective members of the Committee shall be Members of the Society.
- 3. The Executive Committee shall manage the affairs of the Society in conformity with the laws under which it is incorporated and the provisions of this Constitution. It shall direct the investment and care of the funds of the Society; make appropriations for specific purposes; arrange for the reading and publication of professional papers under such regulations as the Council may from time to time prescribe; take measures to advance

the interests of the Society, and generally direct its affairs.

- 4. The Executive Committee shall make an annual report to the Society, transmitting the report of the Secretary and Treasurer, and of any special committee which may have been ordered.
- 5. (1) The Secretary shall be the Executive Officer of the Society under the immediate direction of the President and the Executive Committee.
- (2) He shall prepare the business for the annual meetings and record the proceedings thereof.
- (3) He shall be responsible for all expenditures and certify the accuracy of all bills or vouchers upon which money has been paid, and he shall conduct the correspondence of the Society and keep full records of the same.
- 6. The Treasurer shall see that all money due the Society is collected and carefully invested in such manner as the Executive Committee may direct. If considered advisable by the Council, the duties of Treasurer may be performed by the Secretary.
- 7. The accounts of the Secretary and Treasurer shall be audited annually by a special committee of three members of Council, appointed by the President of the Society.

## ARTICLE VI.

## Meetings.

- I. There shall be at least one annual general meeting of the Society for the reading and discussion of professional papers, election of officers for the ensuing year, and transaction of such other business as may be brought before it. The time and location of this meeting shall be determined by the Council at least three months prior to the date fixed.
- 2. Special meetings may be called by the Executive Committee at the request of twenty members, which request shall state the purpose of the meeting. The call for such meetings shall be issued ten days in advance, and shall state the purpose thereof. At these meetings thirty members shall constitute a quorum.
- 3. The Society may adopt, from time to time, such rules as it may think proper for the order of business at its meetings.
- 4. Special meetings of the Executive Committee may be held at any time, subject to the call of the Chairman; and four members shall constitute a quorum for the transaction of any business that may be properly brought before the Committee.

## ARTICLE VII.

## Amendments.

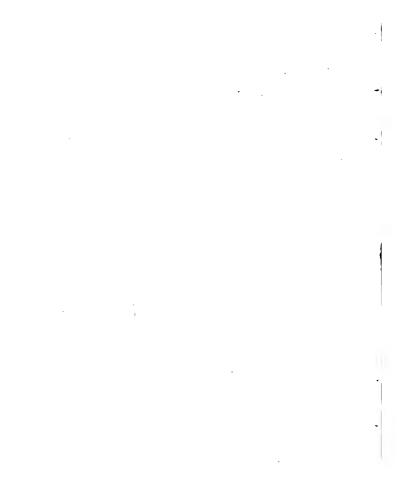
I. Proposed amendments to the Constitution must be reduced to writing and signed by not less than ten members. They shall be forwarded to the Secretary at least ten days before the annual general meeting, and shall be immediately forwarded to the Council for its consideration. If a majority of the Council approve the proposed amendment it shall be presented to the Society at the next ensuing general meeting for discussion; if approved by two-thirds of the members present, voting by ballot, if a ballot be demanded, it shall be adopted.



# Society of Naval Architects and Marine Engineers

## \*FORM OF PROPOSAL OF MEMBER

Name in full
Date of Birth
Nationality
Post-Office Address
Date of Application
Professional position now
held, giving name and
address of institution.
firm or shipyard.
Brief statement of
technical train-
ing and profes-
sional experi-
ence, strict
attention being
paid to the by-
laws governing
applications 1 0 f
admission to
membership.
[See Constitution.]
I certify that the above statements are correct, and, if
elected, pledge myself to abide by the constitution and by-
laws as at present in force or hereafter established, and,
in the event of my ceasing to be a member, that I will
return for cancellation my certificate of membership in
the above society.
Signature of applicant
190
Having examined the above statement, we, the un-
dersigned, signify our approval thereof and recommend
Mrfor election as a Member.
Signature of three
members.
members.
*Same form for Associates and Juniors, except that
the approval of only two members are required for Asso-

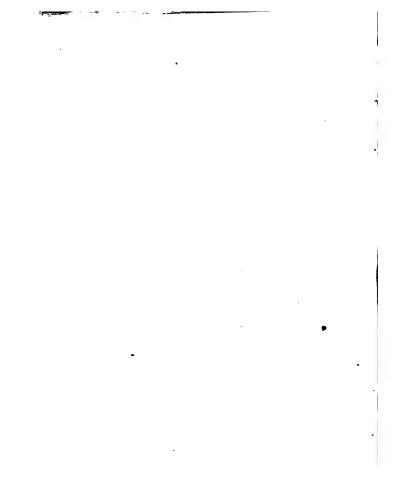


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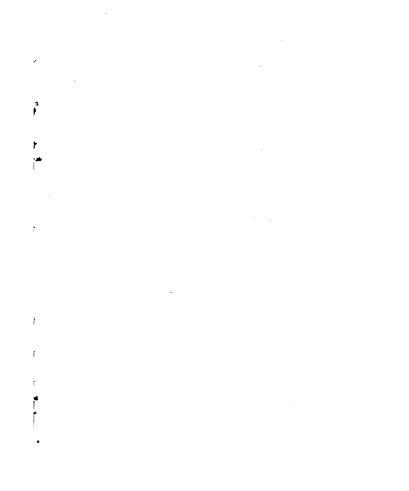
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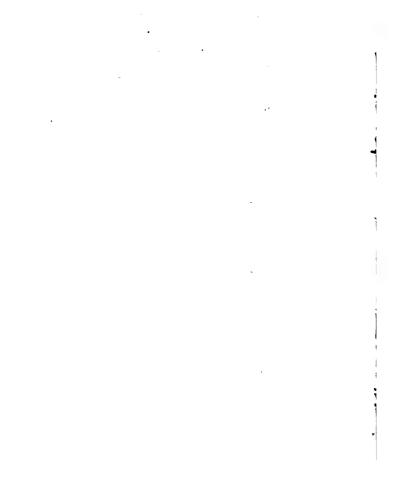
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